

Product Change Notification PCN15003

PicoZed 7010/7020 Board Input Voltage Support

Subject: Operating PicoZed 7010/7020 boards above 5V.

Products Affected: This PCN affects all PicoZed 7010/7020 boards BD-Z7PZ-7Z0x0-xx...

Change Description: Starting with BOM REV C04 all capacitors attached to the input power rail will be rated at 16V or above.

Replacing these capacitors rated 16V or above for following reference designators:

0.1uF (0201 Package – 10V) - C172, C175, C177, C179
4.7uF (0402 Package – 6.3V) - C173, C174, C178, C180
100uF (1210 Package – 6.3V) - C17, C22, C38, C176

Note: 4.7uF 0402 value changed to 2.2uF 0402 in order to achieve required power ratings

Reason for Change: Changing these capacitors allows customers to power the PicoZed 7010/7020 at voltages greater than 5V DC and less than 12V DC.

Note: PicoZed 7010/7020 boards shipped prior to BOM REV C04 are restricted to VIN=5V DC.

The input voltage to the PicoZed 7010/7020 board is provided via the VIN pins on the JX1/JX2/JX3 connectors on the System-On-Modules. If an end user Carrier Board is designed to provide greater than 5V and less than 12V on the VIN pins of the System-On-Module, the capacitors attached to the VIN rails of the PicoZed 7010/7020 need to be able to support these voltages.

For boards built prior to REV C04 ({PCB rev}-{BOM rev}) the user must also replace the input Capacitors as listed above prior to raising the input voltage above 5V DC.

Once the modifications described in this document are completed the PicoZed board can be safely operated with an input voltage from 5V to 12V DC. Operation above 12V while possible is not recommended for the PicoZed 7010/7020 boards.

For any questions regarding this PCN you may contact your local Avnet sales representative.